

Title (en)
SILANIZED HIGHLY HYDROPHOBIC SILICIC ACIDS

Title (de)
SILANISIERTE HOCHHYDROPHOBE KIESELSÄUREN

Title (fr)
ACIDES SILICIQUES SILANISÉS HAUTEMENT HYDROPHOBES

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Application
EP 14799490 A 20141119

Priority

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Abstract (en)
[origin: WO2015078744A1] 2.1. The problem addressed by the present invention is that of providing silicic acids which are highly hydrophobic and therefore can be used with particular success to control the rheological or triboelectric properties of liquid media or as flow enhancers. 2.2. The problem is solved by providing silicic acids which are surface-modified with a compound from the group (RO)₃SiR', wherein R' = C_nH₂(n-m)+1, n = 9 to 14, m = 0 to n and R = C_qH_{2q}+1, where q = 1 to 4. Also described is a method for the surface modification of silicic acids, which are treated in a thermal reaction with a modification agent selected from one or more organotrialkoxysilanes of general formula (RO)₃SiR', wherein R' = C_nH₂(n-m)+1, where n = 9 to 14 and m = 0 to n and R = C_qH_{2q}+1, where q = 1 to 4. 2.3. The silicic acids surface-modified according to the invention can be used to control the rheological or triboelectric properties of liquid media, such as, for example, as thickeners and antiblocking agents, or as flow enhancers.

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Citation (search report)
See references of WO 2015078744A1

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